GREATER BENGALURU AUTHORITY

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Tender Notification No: BBMP/2025-26/IND0148/Call-2 Dated:10-11-2025

ADDENDUM-1

Sub: Short term tender for the Supply, Installation and Commissioning of Next Generation Firewall and Switch for the IT Department of BBMP.

Ref: Tender Notification No: BBMP/2025-26/IND0148/Call-2, Dt:02-09-2025.

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I. The Annexure-1 in page No.17 in the Tender Document shall be replaced by the following table –

Annexure – I (Technical Specifications for Firewall

A. FIREWALL		
SL No	**Description**	**Specification**
1	Interfaces	Minimum 6 × 10G/1G (SFP+)
		Minimum 18 × 1GbE copper ports.
		2 USB 3.0,
		1 Console,
		1 Mgmt. port
2	Storage	128GB
3	Storage Expansion Slot	optional
4	Logical VLAN and tunnel interfaces (maximum)	512
5	SSO Users	5000 or Higher
6	Access points supported(maximum)	512
7	Firewall inspection throughput	9 Gbps or Higher
8	Threat Prevention throughput	9.5 Gbps
9	Application inspection throughput	11 Gbps
10	IPS throughput	10 Gbps
12	TLS/SSL inspection and decryption throughput (DPI SSL)	4.3 Gbps or Higher
13	IPSec VPN throughput	11 Gbps
14	Connections per second	115,000
15	Maximum Connections (SPI)	5,50,000 or Higher
16	MAX DPI-SSL Connections(optional)	350,000

17	Maximum connections (DPI)-optional	2,000,000
18	Site-to-site VPN tunnels	2000 or higher
19	IPSec VPN clients (max)	500 (3000)
20	Minimum SSL VPN Licenses supported	1000 or Higher
21	Encryption/Authentication	DES, 3DES, AES-128/192/256, SHA-1, SHA-2
22	Key exchange	Diffie Hellman Groups 1, 2, 5, 14v
23	Route-based VPN	RIP, OSPF, BGP
24	Certificate support	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB
25	VPN features	Route-based VPN
26	Global VPN client platforms supported	Microsoft® Windows Vista 32/64-bit, Windows 7 32/64-bit,Windows 8.0 32/64-bit, Windows 8.1 32/64-bit, Windows 10
27	NetExtender	Microsoft Windows Vista 32/64-bit, Windows 7, Windows 8.0 32/64-bit, Windows 8.1 32/64-bit, Mac OS X 10.4+,Linux FC3+/Ubuntu 7+/OpenSUSE
28	Mobile Connect	Apple® iOS, Mac OS X, Google® Android™, Kindle Fire,Chrome, Windows 8.1 (Embedded)
29	Deep Packet Inspection services	Gateway Anti-Virus, Anti-Spyware, Intrusion Prevention, DPI SSL
30	Content Filtering Service (CFS)	HTTP/HTTPS, IP keyword and content scanning with category-based controls
31	Comprehensive Anti-Spam Service	Supported
32	Application Visualization	Yes
33	Application Control	Yes
34	Capture Advanced Threat Protection	Yes
35	IP address assignment	Static (DHCP, PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP relay
36	NAT modes	1:1, 1:many, many:1, many:many, flexible NAT (overlapping IPs), PAT, transparent mode
37	Routing protocols	BGP4, OSPF, RIPv1/v2, static routes, policy-based routing
38	QoS	Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1e (WMM)
39	Authentication	LDAP (multiple domains), XAUTH/RADIUS, TACACS+, SSO, Radius accounting NTLM, internal user database, 2FA, Terminal Services, Citrix, Common Access Card (optional)
40	Local user database	2500
41	VoIP(optional)	Full H323-v1-5, SIP

42	Standards	TCP/IP, UDP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3
43	Common Access Card (CAC)	Supported (Optional)
44	High availability	Active/Passive with stateful synchronization
45	Form factor	1U Rack Mountable
46	Fans	2 (removable)
47	Power supply	350W
48	Maximum power consumption (W)	108.1
49	Redundant Power Supply	100-240 VAC, 50-60 Hz
B. SWITCH		
1	**Hardware and Interfaces**	
1.1	Interfaces	48 × 10/100/1000 RJ45 copper ports with PoE+ support (802.3af/at, up to 740W PoE budget)
		4 × 10G SFP+ uplink ports
		2 × 40G QSFP+ uplink ports
1.2	Service Ports	At least 1 × 10/100/1000 management port
1.3	Console	1 × RJ-45 serial console port; 1 × USB management port
1.4	Form Factor	1RU rack-mountable
1.5	Power Supply	Dual, hot-swappable AC (redundant)
1.6	Power Consumption	≤ 800W (including PoE load)
2	**Performance**	
2.1	Switching Capacity (Duplex)	≥ 216 Gbps
2.2	Forwarding Rate	≥ 160 Mpps
2.3	Latency	< 1 µs
2.4	MAC Address Table	≥ 32K
2.5	VLANs Supported	≥ 4,000
2.6	Queues per Port	≥ 8
2.7	Packet Buffers	≥ 3 MB
2.8	Memory	≥ 2 GB RAM
2.9	Flash	≥ 4 GB
2.10	Drive/Storage	Internal storage not required (firmware in flash)
3	**Features**	
3.1	IPv4/IPv6 Routing	Supported (Static routing, OSPF, Policy-based routing)
3.2	Link Aggregation	Up to 24 groups, IEEE 802.3ad (LACP)
3.3	QoS	Supported at wire speed (8 queues per port, IEEE 802.1p)
3.4	PoE Features	IEEE 802.3af/at compliant; Dynamic PoE power allocation

3.5	Standards	IEEE 802.1Q VLAN tagging, IEEE 802.1p QoS, IEEE 802.3ad LAG, IEEE 802.3x Flow Control, IEEE 802.1X authentication, IGMP Snooping, MLD Snooping

All other Tender conditions remain the same as per RFP Tender Document.

For further details visit GOK KPP Portal website https://kppp.karnataka.gov.in.

Deputy Chief Information Officer-IT (I/C)
Greater Bengaluru Authority

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